CONTENTS VOLUME 45, 1989

Review Paper	
A review on the theory of photon transport in leaf canopies	
R.B. Myneni (Göttingen, F.R.G.), J. Ross (Estonia S.S.R., U.S.S.R.) and G. Asrar	
(Washington, DC, U.S.A.)	1
Research Papers	
Leaf photosynthesis and leaf conductance of maize grown hydroponically and in soil	
under field conditions	
J.D. Fuentes and K.M. King (Guelph, Ont., Canada)	155
A flexible portable system for measurement of air temperature and humidity	
P.N. Persson (Lund, Sweden)	167
Heat and water vapour transfer in a greenhouse with an underground heat storage system. Part I. Experimental results	
T. Boulard, E. Razafinjohany and A. Baille (Montfavet, France)	175
Heat and water vapour transfer in a greenhouse with an underground heat storage system.	
Part II. Model	
T. Boulard, E. Razafinjohany and A. Baille (Montfavet, France)	185
Influence des facteurs climatiques sur la phénologie de la féverole (Vicia faba (L.))	
D. Poulain, S. Keller (Rennes, France), F. Le Guen et P. Berthelem (Le Rheu,	
France)	195
An atmospheric transmittance model for the calculation of the clear sky beam, diffuse and global photosynthetically active radiation	
C. Gueymard (Laval, Que., Canada)	215
Seasonal change in water use and carbon assimilation of irrigated wheat	orode A.C
F.X. Dunin (Canberra City, A.C.T., Australia), W.S. Meyer (Griffith, N.S.W.,	
Australia), S.C. Wong and W. Reyenga (Canberra City, A.C.T., Australia)	231
Estimating the agricultural risks of tropical rainfall	
S. Nieuwolt (Weert, The Netherlands)	251
Conservation and storage of snowmelt in stubble land and fallow under alternate fallow-	
strip cropping management in Montana	oes
J.M. Caprio, G.K. Grunwald and R.D. Snyder (Bozeman, MT, U.S.A.) Effects of climate on potential soil water gain from snowmelt in stubble and fallow fields	200
I.M. Caprio, G.K. Grunwald and R.D. Snyder (Bozeman, MT, U.S.A.)	281
Application of CERES-maize model to yield prediction of a Brazilian maize hybrid	
W.T.H. Liu (Belo Horizonte, Brazil), D.M. Botner and C.M. Sakamoto (Columbia,	
MO, U.S.A.)	229
Influence of temperature upon crop and insect pest phenologies for field corn and the role	
of planting date upon their interrelationships	
J.D. Carlson and S.H. Gage (East Lansing, MI, U.S.A.)	313
Leaf area measurement based on hemispheric photographs and leaf-litter collection in a deciduous forest during autumn leaf-fall	
H.H. Neumann, G. den Hartog (Downsview, Ont., Canada) and R.H. Shaw (Davis,	
CA, U.S.A.)	395
VA; VIXA/	020
Book Reviews	347
Contents Vol. 45 (1989)	355